## Supplementary Table 3: Suggested list of structured interviews, clinical and laboratory assessments for the investigation of persistent fatigue & symptoms after COVID-19.

Assessment or Investigation	Domain (*COVID-19 specific elements)	Comment	Relevant references
Medical assessment	Thorough medical history and physical examination including functional status, signs of respiratory impairment or heart failure*, pulse oximetry*.	Characterize the fatigue state (e.g., fatigue, weakness, somnolence, dyspnea), identify pre-morbid, concurrent, or <i>de novo</i> contributors to the fatigue state.	Wilson J, Morgan S, Magin PJ, van Driel ML. Fatigue—a rational approach to investigation. Aust Fam Physician 2014; 43: 457–461.  Greenhalgh T, Knight M, A'Court C, Buxton M, & Husain L. Management of post-acute covid-19 in primary care. The BMJ. 2020 370.  Sandler, C. X., & Lloyd, A. R. Chronic fatigue syndrome: progress and possibilities. Medical Journal of Australia. 2020 212(9), 428–433.  National Institute for Health and Care Excellence. COVID-19 rapid guideline: managing the long-term effects of COVID-19. 2020.  World Health Organization, Global COVID-19 Clinical Platform Case Report Form (CRF) for Post COVID condition (Post COVID-19 CRF). 2021.
Mental health assessment	Thorough history and current mental state examination.	Characterize the fatigue state (e.g., anxiety, sleep disturbance, motivation loss). Identify pre-morbid, concurrent, or <i>de novo</i> contributors to the fatigue state.	Stadje, R., Dornieden, K., Baum, E. et al. The differential diagnosis of tiredness: a systematic review. BMC Fam Pract 2016 17, 147.  Kroenke K, Wood DR, Mangelsdorff AD, Meier NJ, Powell JB. Chronic Fatigue in Primary Care: Prevalence, Patient Characteristics, and Outcome. JAMA. 1988;260(7):929–934.  Griffith JP, Zarrouf FA. A systematic review of chronic fatigue syndrome: don't assume it's depression. Prim Care Companion J Clin Psychiatry 2008; 10: 120–128.  World Health Organization. Clinical management of COVID-19: interim guidance. 2020.†  National Institute for Health and Care Excellence. COVID-19 rapid guideline: managing the long-term effects of COVID-19. 2020.  World Health Organization. Global COVID-19 Clinical Platform Case Report Form (CRF) for Post COVID condition (Post COVID-19 CRF). 2021.

Blood tests	Full blood count, urea, electrolytes and creatinine levels, liver, and thyroid function tests, C-reactive protein levels or erythrocyte sedimentation rate, and fasting blood glucose, D-dimer,* brain natriuretic peptides,* ferritin*.	Investigations to identify potential causes of chronic fatigue.	Fukuda K, Straus SE, et al. The chronic fatigue syndrome: a comprehensive approach to its definition and study. International Chronic Fatigue Syndrome Study Group. Ann Intern Med 1994; 121(12): 953-9.  Wilson J, Morgan S, Magin PJ, van Driel ML. Fatigue—a rational approach to investigation. Aust Fam Physician 2014; 43: 457–461.  BMJ. BMJ Best Practice Coronovairus disease 2019 (COVID-19). 2020.†  National Institute for Health and Care Excellence. COVID-19 rapid guideline: managing the long-term effects of COVID-19. 2020.  Shah S, Shah K, Patel SB, et al. Elevated D-dimer levels are associated with increased risk of mortality in COVID-19: a systematic review and meta-analysis. Cardiol Rev. 2020;28(6):295-302. †  Aboughdir M, et al. Prognostic value of cardiovascular biomarkers in COVID-19: a review. Viruses. 2020 11;12(5).†  World Health Organization. Global COVID-19 Clinical Platform Case Report Form (CRF) for Post COVID condition (Post COVID-19 CRF). 2021.
Imaging and other investigations	Chest x-ray, chest CT*, 12-lead ECG*, echocardiogram*, neuroimaging (MRI)*	Investigations to identify potential causes of ongoing fatigue and/or end organ sequelae of COVID-19.	National Institute for Health and Care Excellence. COVID-19 rapid guideline: managing the long-term effects of COVID-19. 2020.  Marshall, J. C., et al. A minimal common outcome measure set for COVID-19 clinical research. Lancet Infect Dis 2020 20: e192–e197.  Almqvist J, et al. Neurological manifestations of coronavirus infections - a systematic review. Ann Clin Transl Neurol. 2020;7(10):2057-2071  Castro RA, Frishman WH. Thrombotic complications of COVID-19 infection: a review. Cardiol Rev 2021; 29(1): 43-7.  Ojo AS, Balogun SA, Williams OT, Ojo OS. Pulmonary fibrosis in COVID-19 survivors:

	Cognitive performance: Cambridge Neuropsychological Test Automated Battery (CANTAB)	CANTAB (proprietary): Includes tests of memory, attention, and executive function and is administered via a touch-sensitive computer screen. The CANTAB allows a decomposition of complex tasks commonly used in clinical assessment into their cognitive components. Tests include versions of the Wisconsin Card-Sorting	predictive factors and risk reduction strategies. <i>Pulm Med</i> 2020: 6175964.  Shafi AMA, Shaikh SA, Shirke MM, Iddawela S, Harky A. Cardiac manifestations in COVID-19 patients-A systematic review. <i>J Card Surg</i> 2020; 35(8): 1988-2008.  World Health Organization. Global COVID-19 Clinical Platform Case Report Form (CRF) for Post COVID condition (Post COVID-19 CRF). 2021.  Sahakian BJ, Owen AM. Computerized assessment in neuropsychiatry using CANTAB: discussion paper. <i>J R Soc Med</i> 1992;85:399–402.
Interviews	Cognitive Function Index (CFI)  Domain	Test, the Tower of London, and the Delayed Matching-to-Sample Test. Is non-verbal and largely language and culture independent.  CFI: Measurement of cognitive performance. Assessment includes the California Verbal Leaning Test, the Rey-Osterrieth Complex Figure Test, the computerized NES continuous performance test, the Trail Making Test A and B, the grooved pegboard test, and the WAIS-III Vocabulary and Digit Span subtests. Eight factors were identified including: verbal learning and memory, visual learning and memory, focused attention, simple information processing, sustained attention, general verbal ability, complex information processing, and fine motor speed.	Brimacombe M, Lange G, et al. Cognitive Function Index for Patients with Chronic Fatigue Syndrome. J Of Chronic Fatigue Syndrome 2004; 12(4): 3-23.  Relevant reference
Semi-structured Clinical Interview for Neurasthenia (SCIN)  Composite International Diagnostic Instrument	Fatigue and related symptoms  Mood disturbance	Publicly available semi-structured clinical interview that assesses various aspects of fatigue (e.g., "fatigue" (including physical and mental fatigability), "pain symptoms", "neurocognitive difficulties", "sleep problems" and "mood disturbance". Captures patterns of occurrence of symptoms & degree to which each symptom causes functional impairment.  CIDI: A computerized structured interview for assessment of mental disorders. Measures prevalence, severity, determines burden of	Bennett, B et al. Characterization of Fatigue States in Medicine and Psychiatry by Structured Interview. Psychosomatic Medicine, 76(5), 379–388.  Andrews G, Peters L. The psychometric properties of the Composite International Diagnostic Interview.
(CIDI)  Structured Clinical Interview for		mental health disorders. Supported by the World Health Organization (WHO), the CIDI has been widely used in large epidemiologic studies and therefore allows for national comparisons of psychiatric prevalence rate. Can be administered by trained lay interviewers.  SCID: A semi-structured interview guide for major mental health disorders. Must be administered by trained interviewers.	Soc Psychiatry Psychiatr Epidemiol 1998;33:80–8.  Robins LN, et al. The Composite International Diagnostic Interview. An epidemiologic Instrument suitable for use in conjunction with different diagnostic systems and in different cultures. Arch Gen Psychiatry. 1988 Dec;45(12):1069-77.  Spitzer RL, Williams JB, Gibbon M, First MB. The Structured Clinical Interview for DSM-III-R (SCID).

DSM-IV Axis I (SCID)  Diagnostic Interview		DIS: A structured diagnostic interview designed to assess specific	I. History, rationale, and description. Arch Gen Psychiatry 1992;49:624–9.  Diagnostic Interview Schedule. Arch Gen Psychiatry
Schedule (DIS)		symptoms, chronology, duration and associated impairments. Can be administered by trained lay interviewers.	1982; 39(12): 1442-5.
Structured Diagnostic Interview for Sleep patterns	Sleep	Publicly available structured interview that screens for a range of sleep disorders (delayed sleep phase, hypersomnia, insomnia,	Merikangas KR, et al. The structured diagnostic interview for sleep patterns and disorders: rationale
and disorders (DISP)		narcolepsy with cataplexy, period limb movement disorder, restless	and initial evaluation. <i>Sleep Med</i> . 2014;15(5):530-5.
and discretis (2 lb1)		legs syndrome, rapid eye movement sleep behavior disorder, sleep	and initial evaluation steep frem 201 (110(e))000 01
		apnea) and clinical impact (symptom course, impairment, severity	
		and treatment). Can be administered by trained lay interviewers.	

<sup>\*</sup> COVID-19 specific elements

<sup>†</sup> This reference is regarding the management of acute COVID-19. The relevance for persistent COVID-19 symptoms is uncertain.